CMR5U-02 CMR5U-04 CMR5U-06 CMR5U-08

SURFACE MOUNT
ULTRA FAST RECOVERY RECTIFIER
5.0 AMP, 200 THRU 800 VOLTS





FEATURES:

- LOW COST
- HIGH CURRENT DENSITY
 -65% INCREASE COMPARED TO CMR3U SERIES
- HIGH PEAK FORWARD SURGE CURRENT (IFSM)
- LOW FORWARD VOLTAGE DROP (V_F)
- GLASS PASSIVATED CHIP
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 5.0 Amp Surface Mount Silicon Ultra Fast Recovery Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer and automotive applications. To order devices on 16mm Tape and Reel (3000/ 13" Reel), add TR13 suffix to part number

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL	CMR5U -02	CMR5U -04	CMR5U -06	CMR5U -08	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	V
DC Blocking Voltage	V_{R}	200	400	600	800	V
RMS Reverse Voltage	V _{R(RMS)}	140	280	420	560	V
Average Forward Current (T _A =55°C)	Ìο			5.0		Α
Peak Forward Surge Current(8.3ms)	I _{FSM}		1	75		Α
Operating and Storage Junction Temperature	T _J ,T _{stg}		-65	to +150		°C
Thermal Resistance	$\Theta_{\sf JL}$			10		oC/W

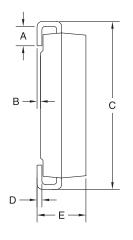
ELECTRICAL CHARACTERISTICS: (T_A=25°C) unless otherwise noted)

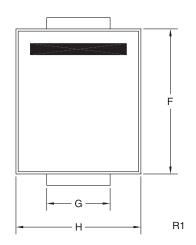
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}		10	μΑ
I_{R}	V _R =Rated V _{RRM} , T _A =100°C		100	μΑ
V_{F}	I _F =5.0A, (CMR5U-02)		1.0	V
V_{F}	I _F =5.0A, (CMR5U-04)		1.3	V
V_{F}	I _F =5.0A, (CMR5U-06 and CMR5U-08)		1.7	V
t _{rr}	I_F =0.5A, I_R =1.0A, I_{rr} = 0.25A (CMR5U-02 and CMR5U-04)		50	ns
t _{rr}	I_F =0.5A, I_R =1.0A, I_{rr} = 0.25A (CMR5U-06 and CMR5U-08)		100	ns

R0 (22-August 2001)



SMC CASE - MECHANICAL OUTLINE





DIMENSIONS					
	INCHES		MILLIM	IETERS	
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.030	0.060	0.76	1.52	
В	0.004	0.008	0.10	0.20	
С	0.305	0.320	7.75	8.13	
D	0.006	0.012	0.15	0.31	
Е	0.079	0.103	2.00	2.62	
F	0.260	0.280	6.60	7.11	
G	0.108	0.124	2.75	3.15	
Н	0.220	0.245	5.59	6.22	

SMC (REV: R1)

MARKING CODES:

DEVICE	MARKING CODE
CMR5U-02	CU502
CMR5U-04	CU504
CMR5U-06	CU506
CMR5U-08	CU508

R0 (22-August 2001)